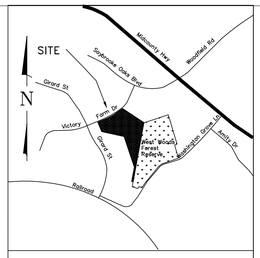
FOR UTILITY LOCATIONS
CONTACT "ONE CALL" AT 811
AT LEAST 48 HOURS
PRIOR TO CONSTRUCTION

Know what's below. Call before you dig.

GAITHERSBURG ELEMENTARY SCHOOL

SOIL EROSION, SEDIMENT CONTROL & SWM PLAN

SC PERMIT No. 286335



VICINITY MAP
SCALE 1" = 2,000'

TREE CANOPY REQUIREMENTS TABLE

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

Exempt: Yes ☑ No ☐ If exempt under section 55–5 of the code, please check the applicable exemption category below.

Total Property Area	Total Disturbed Area
249,052 square feet	310,000 square feet
Shade Trees Required	**Shade Trees Proposed to be Planted**
N/A	N/A
Fee in Leiu (Tree Required – Trees Planted) x $250	$ N/A

Required Number of Shade Trees

Area (sq. ft.) of the Limits of Disturbance FROM	TO	Number of Shade Trees Required
1	6,000	3
6,001	8,000	6
8,001	12,000	9
12,001	14,000	12
14,001	40,000	15

If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:

(Number of Square Feet in Limits of Disturbance ÷ 40,000) x 15

EXEMPTION CATEGORIES

☑ 55–5(a) any activity that is subject to Article II of Chapter 22A;

☐ 55–5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A;

☐ 55–5(f) any activity conducted by the County Parks Department;

☐ 55–5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the maintenance has obtained all required permits;

☐ 55–5(h) any stream restoration project if the person performing the work has obtained all necessary permits;

☐ 55–5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams;

☐ OTHER: Specify per Section 55–5 of the Code.

SEQUENCE OF CONSTRUCTION
(Subject to Forest Conservation Law)

1. Prior to clearing trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) Sediment Control inspector (240) 777-0311 (48 hours notice) and the MNCPPC, Planning Department, Plans Enforcement inspector (301)495-4550 (48 hours notice), the Owners representative, and the site Engineer. In order for the meeting to occur, the applicant must provide one set of approved sediment control plans to the MCDPS sediment control inspector at the preconstruction meeting. If no plans are provided, the meeting shall not occur and will need to be rescheduled prior to commencing any work.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities.
3. The permittee must obtain written approval from the MNCPPC inspector, certifying that the limits of disturbance and tree protection measures are correctly marked and installed prior to commencing any clearing.
4. Install SCE and super silt fence as noted on plans.

NOTE: Saw cut existing curb and gutter and pavement as necessary to install stabilized construction entrance.

5. Construct sediment trap #1. Perform demolition and minor grading needed for trap installation only. This will include closing off access from Parking Area #1 to the asphalt area that will be removed. Once completed, construct earth dikes with mountable berms (ED-1 and ED-2) that direct water to inflow points. Install inflow protection as noted on the plan. Do not install Earth Dike 3 (ED-3).
6. Install inlet protection on EX1 and EX2 as per plan.

NOTE: The permittee must obtain written approval from the MCPDS inspector before proceeding with any additional clearing, grubbing, demolition, or grading. With sediment control inspector's approval, adjust, remove and replace earth dikes and inflow protection as necessary as construction progresses.

7. Begin clearing, grubbing and grading.
8. Demolish all existing structures, sidewalks, and paving and rough grade site.
9. Install retaining walls.
10. Install tot lot and place a fence around the completed project.
11. Begin installation of building pad.
12. Install underground storage facilities SF-1 and SF-2.
13. Install waterline.
14. Install storm drain inlets and manholes and accompanying pipes for the following: 100, 102, 120, 122, 124, 126, 128, 130, 132, 134, 135, 136, 138, 140, 142, 144, 146, 148, 150, 153, 154, 155, 156,158, 160, 162, 164. Do NOT install the flat drains located across the field.
15. After completion and stabilization of building pad, remove ED-1 and install ED-3 to direct flow to sediment trap and inflow protection. Install inflow protection as noted on the plan
16. Move parking to Parking Area #2.
17. Install 10, 12, 232, 234, 236, 238, 240, 242, 244, 246, 247, 248, 250, 252. Block inlets 238, 240, 242, 244, 248 and 252 until remaining storm drain system is attached to the outfall.
18. Install concrete planter boxes PB-5 A-D, but DO NOT install stone, sand, underdrain, or soil.
19. Fine grade site.
20. Install dry utilities except waterline.
21. Begin building construction.
22. Install base paving, curb and gutter, and sidewalks.
23. Install paving.
24. Stabilize site as per C3.04.
25. If the facility area is not connected to an outfall, DO NOT install the stone, sand, underdrain, and soil and DO NOT begin facility. Begin construction of the micro-bioretention stormwater management facilities MB-4, MB-8, and MB-9. Stabilize area surrounding the micro-bioretention facilities or protect using the detail from C3.04. Refer to SWM plans for more details.
26. Upon MCPS Sediment Control Inspector approval, remove earth dikes ED-2 and ED-3 in preparation for removal of the trap.
27. After sufficient stabilization of the tributary area to the trap according to the MCDPS inspector, the trap may be removed with the inspector's permission. Upon MCDPS Sediment Control Inspector approval:

    a. Muck out the trap.
    b. Remove the trap devices.
    c. Backfill the trap and complete final grading.

28. Install SF-3 and install storm drain inlets and pipes: 230, 228, 226, 225, 224, 222, 220, 218, 216, 214, 212, 210, 208, 206, 204, 202, and 200. Install remaining asphalt, curb and gutter, and anything that was determined to be unable to be installed due to the location of the sediment trap. Once outfall is installed, install silt fence around the edge of the outfall riprap.
29. Install concrete planter boxes PB-7 A-H, but DO NOT install stone, sand, underdrain, or soil until area is stabilized and the outfall is installed.
30. As various areas are brought to final grade, place topsoil, sod/seed on grassed areas in conformance with these plans and the "Standard Erosion and Sediment Control Notes" (see Sheet C3.01 and C3.03).
31. Once site area is stabilized, begin placement of stone, sand, underdrain, and soil in the planter boxes and begin construction of the micro-bioretention stormwater management facilities MB-1, -2, and -3. Refer to SWM plans for more details.
32. Complete any additional final grading.
33. Complete final paving.
34. Upon completion of all construction and permanent site stabilization, all sediment control structures shall be removed upon written approval of the MCDPS Sediment Control Inspector.
35. At the completion of the work, submit Stormwater Management as-built plans to MCDPS for review and approval.

NOTE: PRIOR TO VEGETATIVE STABILIZATION ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING & SOIL AMENDMENTS".

STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department.
2. The permittee must obtain inspection and approval by DPS at the following points:
   A. At the required pre-construction meeting.
   B. Following installation of sediment control measures and prior to any other land disturbing activity.
   C. During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). notification prior to commencing construction is mandatory.
   D. Prior to removal or modification of any sediment control structure(s).
   E. Prior to final acceptance.
3. The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department.
4. The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
5. The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such times as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.
6. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:
   a. Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
   b. Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

   All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.
7. The permittee shall apply sod, seed, and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas, such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.
8. Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.
9. The site permit, work, materials, approved SC/SM plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County.
10. Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
11. Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.
12. Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.
13. No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
14. The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
15. For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.
16. Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.
17. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.
18. The sediment control inspector has the option of requiring sediment control measures, as deemed necessary.
19. All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
20. Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.
21. Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet volume of the trap/basin (1/4 the wet storage depth for ST-III) or when required by the sediment control inspector.
22. Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
23. All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than the two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
24. No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.
25. Off-site spoil or borrow areas must have prior approval by DPS.
26. Sediment trap/basin dewatering for cleanout or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:
    A. pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or
    B. the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or
    C. the pump intake may be floated and discharge into a Dirt Bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area.

    Remember: Dewatering operation and method must have prior approval by the DPS inspector.
27. The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
28. Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments."

January 2017

RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT

TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		✓			
WATERWAYS/WETLAND(S):		✓			
a. Corps of Engineers		✓			
b. MDE		✓			
c. MDE Water Quality Certification		✓			
MDE Dam Safety		✓			
DNR Roadside Tree Care Permit		✓		Approval Date	
* DPS Roadside Trees Protection Plan		✓		Approval Date	
N.P.D.E.S. NOTICE OF INTENT	✓				DATE FILED 11/11/2020
FEMA LOMR (Required Post Construction)		✓			
Forest Conservation Plan (City of Gaithersburg)	✓		ENV-8536-2020		
Right-Of-Way Permit (City of Gaithersburg)	✓		SP-8539-2020		

A COPY OF THE APPROVED ROADSIDE TREES PROTECTION PLAN MUST BE DELIVERED TO THE SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING.

June 2017

OWNER'S/DEVELOPER'S CERTIFICATION

I/We hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature — 10/12/2020 Date

Gary Mosesman, Director
Printed Name and Title

CERTIFICATION OF THE QUANTITIES

I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to be 27,203 cubic yards of excavation, 28,412 cubic yards of fill and the total area to be disturbed, as shown on these plans, has been determined to be 310,000 square feet.

Signature — Date

Stephen E. Crum, P.E. — 16905
Printed Name and Title — Registration Number

Note: The earthwork cut and fill quantities and the area of disturbance indicated in this certificate are calculated for the purpose of plan approval and shall not be used for contractual obligations.

DESIGN CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control", Montgomery County Department of Permitting Services Executive Regulations 5–90, 7–02AM and 36–90 and Montgomery County Department of Transportation "Storm Drain Design Criteria" dated June 10, 2014.

Design Engineer Signature — Date

Stephen E. Crum, P.E. — 16905
Printed Name — Registration Number

SOIL EROSION, SEDIMENT CONTROL AND SWM PLAN SHEET INDEX

MONTGOMERY COUNTY GOVERNMENT
DEPARTMENT OF PERMITTING SERVICES

Marc Elrich, County Executive — Mitra Pedoeem, Director

July 16, 2020

Mr. Stephen Crum, P.E.
Macris, Hendricks & Glascock
9220 Wightman Road, Suite 120
Montgomery Village, MD 20886

Re: **COMBINED STORMWATER MANAGEMENT CONCEPT/*SITE DEVELOPMENT STORMWATER MANAGEMENT PLAN*** for
Gaithersburg Cluster Elementary School #8
Preliminary Plan #: TBD
SM File #: 285890
Tract Size/Zone: 5.71 Acres
Total Concept Area: 6.91 Acres
Lots/Block: N/A
Parcel(s): Par 12 Victory Farms
Watershed: Great Seneca Creek.

Dear Mr. Crum:

Based on a review by the Department of Permitting Services Review Staff, the stormwater management concept for the above-mentioned site is **acceptable**. The stormwater management concept proposes to meet required stormwater management goals via Microbioretention and structural treatment.

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

1. A detailed review of the stormwater management computations will occur at the time of detailed plan review.
2. An engineered sediment control plan must be submitted for this development.
3. All filtration media for manufactured best management practices, whether for new development or redevelopment, must consist of MDE approved material.

This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 **is not required**.

Mr. Stephen Crum, P.E.
July 16, 2020
Page 2 of 2

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Andrew Kohler at 240-777-6275.

Sincerely,

Mark C. Etheridge

Mark C. Etheridge, Manager
Water Resources Section
Division of Land Development Services

MCE: CN 285890

cc: N. Braunstein
SM File # 285890

ESD: Required/Provided 35,777 cf / 17,213 cf
PE: Target/Achieved: 2.20"/Full"
STRUCTURAL: 18,345 cf
WAIVED: N/A ac.

THIS PLAN IS FOR SOIL EROSION, SEDIMENT CONTROL AND SWM ONLY

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties
REVIEWED DATE	REVIEWED DATE	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	286335 SEDIMENT CONTROL PERMIT NO.
	N/A: ☐ OR	285890 SM. FILE NO. STORMWATER MANAGEMENT:
REVIEWED DATE	REVIEWED DATE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED	NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT	

ARCHITECT
SMOLEN • EMR • ILKOVITCH ARCHITECTS
9211 CORPORATE BLVD, SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

CIVIL
MACRIS, HENDRICKS & GLASCOCK
9220 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886
301-670-0840(P)

STRUCTURAL
COMPREHENSIVE STRUCTURAL SOLUTIONS
9220 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886
240-200-5599(P)

MECH./ELECTRICAL/PLUMBING
JAMES POSEY ASSOCIATES
11155 RED RUN BLVD, SUITE 310
BALTIMORE, MD 21117
410-265-6100(P)

KITCHEN
NYIKOS-GARCIA FOODSERVICE DESIGN, INC
18219-A FLOWER HILL WAY
GAITHERSBURG, MD 20879
240-683-9530 (P)

SUSTAINABILITY
DOO CONSULTING, LLC
531 PICCADILLY ROAD
BALTIMORE, MD 21204
443-653-3792 (P)

CONSTRUCTION MANAGER
SKANSKA USA BUILDING INC.
700 KING FARM BLVD, SUITE 200
ROCKVILLE, MD 20850
301-795-3100 (P)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No.: 16905, Expiration Date: 4.21.2022.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	SCHEMATIC DESIGN	11/01/2019
2	DD KICKOFF	12/03/2019
3	COORDINATION SET 1	02/03/2020
4	DD PRICING SET	03/09/2020
5	DESIGN DEVELOPMENT	04/06/2020
6	65% CD SET	06/15/2020
7	PERMIT SET	08/10/2020
8	CD IAC SET	09/04/2020

TAX MAP FT62 — WSSC 224NW09

PLAT 12762

9TH ELECTION DISTRICT
CITY OF GAITHERSBURG, MD

GAITHERSBURG CLUSTER ELEMENTARY SCHOOL #8

MONTGOMERY COUNTY PUBLIC SCHOOLS

SHEET TITLE:
SEDIMENT CONTROL PLAN COVER SHEET

PROJECT NO: 19007

DATE: 11/25/20

SCALE: 1"=50'

NORTH

SHEET NO: **C3.01**

Sheet 1 of 28 SC001COVER